WHAT IS CLAIMED IS:

1. A receiver comprising:

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- a receiving unit which receives a multiplex wave of a first broadcasting wave and a second broadcasting wave and outputs a received signal;
 - a first filter which extracts only the first broadcasting wave from the received signal and outputs a first broadcasting wave signal;
- a second filter which extracts the first broadcasting wave and the second broadcasting wave from the received signal and outputs a second broadcasting wave signal;
 - a first AGC unit which controls a gain of the first broadcasting wave signal based on a level of the first broadcasting wave signal;
 - a second AGC unit which controls a gain of the second broadcasting wave signal based on a level of the second broadcasting wave signal;
 - an AGC adjusting quantity determining unit which analyzes a receiving condition of the first broadcasting wave signal and determines an AGC adjusting quantity based on an analyzed result; and
 - an AGC adjusting unit which adjusts an AGC quantity of the second AGC unit according to the AGC adjusting quantity.
 - 2. The receiver according to claim 1, wherein the AGC adjusting quantity determining unit comprises:
 - a carrier detecting unit which detects carriers of the first broadcasting wave signal;
- a threshold value analyzing unit which determines the receiving condition of the first broadcasting wave signal by comparing detected carriers with a predetermined threshold values; and
 - a unit which determines the AGC adjusting quantity based

on a determining result by the threshold value analyzing unit.

- 3. The receiver according to claim 1, wherein the threshold value analyzing unit comprises:
- 5 a unit which compares the detected carriers with the predetermined threshold value;
 - a unit which compares a number of carriers having a level larger than the predetermined threshold value with a predetermined number; and
- a unit which executes an adjustment by the AGC adjusting unit in a case that the number of carriers having the level larger than the predetermined threshold value is smaller than the predetermined number.
- 4. The receiver according to claim 2, wherein the receiving condition of the broadcasting wave signal comprises a condition associated with a range of the receiver from a broadcasting antenna for the first broadcasting wave signal and a condition of a fading.

5. The receiver according to claim 1, wherein the AGC adjusting quantity determining unit comprises:

a carrier detecting unit which detects carriers of the first broadcasting wave signal;

a time-variation quantity analyzing unit which outputs a time-variation quantity indicating a level variation of the carrier during a predetermined time; and

a unit which determines the AGC adjusting quantity in accordance with the time-variation quantity.

6. An AGC method comprising:

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a process of receiving a multiplex wave of a first broadcasting wave and a second broadcasting wave and outputting a received signal;

a process of extracting only the first broadcasting wave from the received signal and outputting a first broadcasting wave signal;

a process of extracting the first broadcasting wave and the second broadcasting wave from the received signal and outputting a second broadcasting wave signal;

a first AGC process of controlling a gain of the first broadcasting wave signal based on a level of the first broadcasting wave signal;

a second AGC process of controlling a gain of the second broadcasting wave signal based on a level of the second broadcasting wave signal;

an AGC adjusting quantity determining process of analyzing a receiving condition of the first broadcasting wave signal and determining an AGC adjusting quantity based on an analyzed result; and

an AGC adjusting process of adjusting an AGC quantity utilized in the second AGC process according to the AGC adjusting quantity.

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